

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau

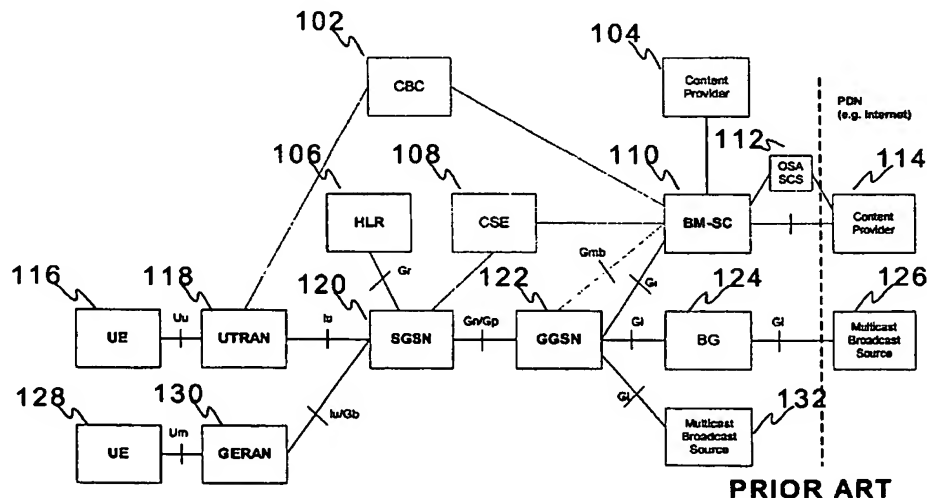


(43) International Publication Date
15 April 2004 (15.04.2004)

PCT

(10) International Publication Number
WO 2004/032552 A1

- (51) International Patent Classification⁷: **H04Q 7/38**, H04L 12/56, H04Q 7/22
- (21) International Application Number: PCT/FI2003/000718
- (22) International Filing Date: 2 October 2003 (02.10.2003)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
20021755 2 October 2002 (02.10.2002) FI
- (71) Applicant (for all designated States except US): **NOKIA CORPORATION** [FI/FI]; Keilalahdentie 4, FIN-02150 Espoo (FI).
- (72) Inventor; and
(75) Inventor/Applicant (for US only): **PARANTAINEN, Janne** [FI/FI]; Tallberginkatu 3 as 34, FIN-00180 Helsinki (FI).
- (54) Title: **METHOD AND ARRANGEMENT FOR INDICATING REQUIREMENTS FOR BROADCAST AND MULTICAST RECEPTION**
- (74) Agent: **BERGGREN OY AB**; P.O. Box 16, FIN-00101 Helsinki (FI).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:
— with international search report
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.



PRIOR ART

(57) Abstract: The invention relates to a method and an arrangement for indicating requirements for broadcast and multicast service reception. A basic method comprises a step of transmitting a message indicating said requirements over the air interface to terminals within the service range. An alternative method comprises a step of informing terminal's capabilities to the system which deduces on the basis of informed data whether the terminal is capable of joining the service or not. A wireless system comprising a network element and at least one wireless terminal operable in said system is presented. Said wireless terminal is capable of receiving said broadcast message indicating said requirements and sending a capability notification. Said network element is capable of receiving said notification and sending said message indicating said requirements. Service requirements and corresponding terminal capabilities are divided into a number of capability classes which can be announced instead of explicit data.